

# Introduction

This guide provides instructions for installing Department of Veterans Affairs (VA) Network Health Exchange (NHE) V. 5.1 .

The Network Health Exchange represents the first phase of the Clinical Information Resource Network (CIRN) Project. The primary goal of the CIRN project is to assure full access to patients' information for primary care providers, regardless of location of care. NHE is being released as an interim bridge to a more fully integrated clinical patient data exchange system in the future . The clinician is notified by the software that the requested information is available. The profile may be viewed online or printed.

The NHE package accesses several Decentralized Hospital Computer Program (DHCP) files which contain information concerning clinic visits , diagnoses, prescriptions, laboratory tests, radiology exams, and hospital admissions. It enables clinicians to request a total or brief medical or pharmacy record for a specified patient from a specified site or sites. This permits clinical staff to take advantage of the vast amount of clinical data supported through DHCP.



# Preliminary Considerations

Steps required to perform the installation are listed below. Instructions for performing these functions are provided in vendor-supplied operating system manuals as well as in Decentralized Hospital Computer Program (DHCP) publications. DSM for OpenVMS instructions are provided in the VAX DSM Systems Guide; and MSM-DOS instructions are provided in the 486 Cookbook and Micronetics Standard MUMPS (MSM) System Managers Guide .

Average installations take about 2 minutes when run during the day while users are on the system.

## Namespace and Globals

The NHE V. 5.1 package uses the namespace AFJX and brings in the global ^AFJ.

## Platform Requirements

The Network Health Exchange packages requires a standard DHCP operating environment to function correctly.

### **Minimum requirements:**

Kernel V. 8.0  
VA FileMan V. 21.0  
Kernel Toolkit V. 7.3  
MailMan V. 7.1

## You will need to know how to:

- Log on to the system console.
- Shut down and bring up (boot) the system.
- Restore routines from the distribution medium to your disk drive.
- Enable/disable routine mapping and translate/replicate globals.
- Run a system status and terminate a process.
- Copy routines: using diskettes, tapes, or Virtual Memory System (VMS) files (DSM).
- Back up the system; enable/disable journaling.

- Switch User Class Identification (UCI) between Manager (MGR) and Production (VAH).

## **Advance Preparation**

- Back up your system as a safeguard before the installation.
- Load the routines into a test account.

Before beginning the installation procedure, establish the MailMan domain for transmission of data between your site and other VAMCs.

# Installation Overview



**NOTE:** Sites previously running the NHE Class III version software must delete all AFJX\* routines before loading Version 5.1.

**1**

Read the **Release Notes** and **Installation Guide** . Refer to the **Technical Manual** for additional information, if desired.

**2**

Determine that your DHCP environment meets the minimum platform requirements.

**3**

Verify that the MailMan domain for transmission of data between your site and other VAMCs is functioning correctly .

**4**

Create the new ^AFJ global and establish appropriate access privileges. The ^AFJ global must be translated and journaled.

**5**

Set your DUZ to a valid user number and your DUZ(0)="@" so that you will have all privileges set during the actual installation.

**6**

Run the install routine AFJXINST. Load the NHE routines from the distribution media in the UCI where the NHE package will reside. For an example, see the Sample Installation section in this manual.

**7**

Set up the **Network,Health Exchange** User. For an example, see that titled section in the Installation Procedures section of this manual.

**8**

Schedule the AFJXNH PURGE NIGHTLY job through Taskman. This job should run late at night or after your backup and must be scheduled after AFJXNH ADD PATIENTS.

**9**

Set up entries in the VAMC NETWORK HEALTH AUTHORIZED SITES file. For an example, see that titled section in the Installation Procedures section of this manual. Each site will need to populate this file with the domain name of sites with

which they plan to share data.

**10**

Create a resource device that the service will use. For an example, see that titled section in the Installation Procedures section of this manual.

**11**

Run the routines that will add entries to the NETWORK PATIENT file.

**12**

Schedule background jobs to run nightly: AFJXNH ADD PATIENTS and AFJXNH PURGE NIGHTLY.

**13**

Assign clinical users the menu option AFJXNHEX REQUEST.

**14**

Delete DGY3\* and AFJXI\* install routines when you have completed the installation.

# Installation Procedures

This section describes the procedures for installing Network Health Exchange V. 5.1 on your system. It contains the following sections:

- **Installing NHE, the NETWORK IDENTIFIER in the PATIENT File, and the PATIENT File Identifier**
- **Setting Up the NETWORK,HEALTH EXCHANGE User**
- **Setting Up Entries in the VAMC NETWORK HEALTH AUTHORIZED SITES File**
- **Setting Up a Resource Device**





## Installing NHE, the PATIENT File Identifier, and the PATIENT File Field



**NOTE:** Sites previously running the NHE Class III version software must delete all AFJX\* routines before loading Version 5.1.

**1**

Before beginning the installation of the Network Health Exchange package, read the Release Notes and Install Guide. Note especially the Preliminary Considerations section.

Reference to the Technical Manual may be helpful during installation. It provides additional information related to installing, implementing, and maintaining the NHE package.

**2**

Verify that your DHCP environment meets the minum platform requirements for NHE (e.g., confirm the types and versions of DHCP packages currently installed):

Kernel V. 8.0  
VA FileMan V. 21.0  
Kernel Toolkit V. 7.3  
MailMan V. 7.1

**3**

Verify that the MailMan domain for transmission of data between your site and other VAMCs is functioning correctly. Use the Systems Manager Menu, Manage MailMan submenu, and the Network Management submenu to do this.

**4**

Use the M utilities to create the new ^AFJ global and to establish appropriate access privileges. The ^AFJ global must be translated and journaled.

**5**

Set your DUZ to a valid user number and your DUZ(0)="@" so that you will have all privileges set during the actual installation.

## 6 Run the install routine ^AFJXINST.

Load the NHE routines from the distribution media in the UCI where the NHE package will reside. Copy the routines to all systems and volume sets as appropriate for your configuration. For an example, see the Sample Installation section later in this manual.

AFJXINST runs the AFJXINIT followed by DBY3INIT (Patch DGY3\*5.3\*81).

After this runs, you should have the following:

<b>File</b>	<b>Name</b>	<b>Description</b>	<b>Data Exported YES or NO</b>
AFJX(537000,	NETWORK HEALTH EXCHANGE	Tracking file for requests	NO
AFJX(537010,	NETWORK PATIENT	Patients seen in network area	NO
AFJX(537015,	NETWORK HEALTH TYPES	Components available (27 types of data)	YES
AFJX(537025,	VAMC NETWORK HEALTH AUTHORIZED SITES	Sites you will be sending requests to and/or receiving data from. Each site will populate this file with the domain names of sites with which they plan to share data.	NO

<b>Servers</b>	
AFJXNETP	Network Health Patient Server
AFJXNHDONE	Network Health Exchange Alert Send Server
AFJXSERVER	NHE Patient Data Request Server. Processes requests upon receipt

<b>Options</b>	
AFJXNHEX REQUEST	<p><b>USER'S MENU:</b> Sends a request via network mail to the data server at the Authorized site. General option for all clinical data users. It contains the following options:</p> <ul style="list-style-type: none"> <li>Brief (12 months) Medical Record Information</li> <li>Total Medical Record Information</li> <li>Brief (12 months) Pharmacy Information</li> <li>Total Pharmacy Information</li> <li>Print (Completed Requests Only)</li> <li>Print By Type of Information (Completed Requests)</li> </ul>
AFJXNHEX MANAGER	<p><b>MANAGER'S MENU:</b> Options for coordinator or manager. Allows manager to add or edit sites, to make inquiries, and to go directly to the general options. It contains the following options:</p> <ul style="list-style-type: none"> <li>AFJXNHEX ADD/EDIT SITES</li> <li>AFJXNHEX INQUIRE</li> <li>AFJXNHEX REQUEST</li> </ul>
AFJXNH ADD PATIENTS	<p>Nightly scheduled option to add patients to NETWORK PATIENT file. Must be scheduled when the system is not busy, e.g., around 3:30 or 4:00 a.m.</p>
AFJXNH PURGE NIGHTLY	<p>Nightly scheduled option to purge messages from NETWORK,HEALTH EXCHANGE User's mailbox. Must be scheduled after AFJXNH ADD PATIENTS.</p>

### PATIENT File Changes

File	Name	Description	Data Exported YES or NO
DPT(	PATIENT	NETWORK IDENTIFIER field (New field [#537025] in PATIENT file)	NO
DPT(		Identifier node (A FileMan DBS-compliant [silent] write-only identifier)	

After running the inits:

- 7** Set up the NETWORK,HEALTH EXCHANGE User: The name must be spelled exactly, including the comma (,) and with no space between NETWORK, and HEALTH. Use the Kernel options to add it so that a mailbox will be created.

See the example in the next section:

## Setting Up the NETWORK,HEALTH EXCHANGE User

Shown below is a capture of a sample setup for a NETWORK,HEALTH EXCHANGE User performed at San Francisco IRM Field Office.

Network Health Exchange Data is stored in the form of mail messages in the Network, Health Exchange users mailbox. These messages are accessible only through the NHE menu options. Set local parameters to manage the length of time such messages are retained.

The Network,Health Exchange user must have an access and verify code to set up the required MailBox. Additionally, the DISUSER flag must be set to YES (accessible through the Edit an Existing User option), as shown below. Other than required fields (e.g., Initials, SSN and Service/Section), no other fields contain data.

```
Select Systems Manager Menu Option:  user Management

Select User Management Option:  add a New User to the System
Enter NEW PERSON's name (LAST,FIRST MI):  NETWORK,HEALTH EXCHANGE
Are you adding 'NETWORK,HEALTH EXCHANGE' as
a new NEW PERSON (the 552ND)?  YES (Yes)
Checking SOUNDEX for matches.
No matches found.
Now for the Identifiers.
INITIAL:  NHE
SSN:  000006789                                <-- Note: Enter a pseudo SSN
SEX:
NICK NAME:
TITLE:
SSN:  000006789//
Select DIVISION:
SERVICE/SECTION:  IRM  INFORMATION RESOURCES MGMT.          IRM
MAIL CODE:
Want to edit ACCESS CODE (Y/N):  YES
Enter a new ACCESS CODE <Hidden>:                                <-- Note: Enter an Access Code
Please re-type the new code to show that I have it right:
OK, Access code has been changed!

Want to edit VERIFY CODE (Y/N):  YES
Enter a new VERIFY CODE:                                <-- Note: Enter a Verify Code
Please re-type the new code to show that I have it right:
OK, Verify code has been changed!

FILE MANAGER ACCESS CODE:
PRIMARY MENU OPTION:
Select SECONDARY MENU OPTIONS:
PREFERRED EDITOR:
PAC:
FILE RANGE:
MULTIPLE SIGN-ON:
ASK DEVICE TYPE AT SIGN-ON:
AUTO MENU:
TYPE-AHEAD:
TIMED READ (# OF SECONDS):
ALWAYS SHOW SECONDARIES:
```

## Installation Procedures

```
PROHIBITED TIMES FOR SIGN-ON:
ALLOWED TO USE SPOOLER:
CAN MAKE INTO A MAIL MESSAGE:

Print User Account Access Letter?  NO
Do you wish to allocate security keys? No//  NO  (No)
```

Now, EDIT the user you just created to set the DISUSER flag to YES:

```
Select User Management Option:  EDIT an Existing User
Select NEW PERSON NAME:  NETWORK,HEALTH EXCHANGE
```

```
                                Edit an Existing User
NAME: NETWORK,HEALTH EXCHANGE                                     Page 1
of 3

-----
NAME:  NETWORK,HEALTH EXCHANGE                                INITIAL:  NHE
TITLE:                                                                    NICK NAME:
SSN: 000006789                                                    MAIL CODE:

PRIMARY MENU OPTION:
Select SECONDARY MENU OPTIONS:

Want to edit ACCESS CODE (Y/N):      FILE MANAGER ACCESS CODE:
Want to edit VERIFY CODE (Y/N):

PREFERRED EDITOR:
Select DIVISION:
SERVICE/SECTION: A&MMS

-----
Exit      Save      Next Page      Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND:  Next Page                                           Press <PF1>H for help
```

Edit an Existing User		Page 2
NAME: NETWORK,HEALTH EXCHANGE of 3		
<hr/>		
TIMED READ (# OF SECONDS):		
MULTIPLE SIGN-ON:	AUTO MENU:	
ASK DEVICE TYPE AT SIGN-ON:	TYPE-AHEAD:	
PROHIBITED TIMES FOR SIGN-ON:		
ALLOWED TO USE SPOOLER:	PAC:	
CAN MAKE INTO A MAIL MESSAGE:	DISUSER:	YES
FILE RANGE:		
TERMINATION DATE:		
ALWAYS SHOW SECONDARIES:		
<hr/>		
Exit	Save	Next Page      Refresh
Enter a command or '^' followed by a caption to jump to a specific field.		
COMMAND: Save		Press <PF1>H for help
Select User Management Option:		

THIS STEP IS COMPLETE...

**8** Schedule the AFJXNH PURGE NIGHTLY job through Taskman. This job should run late at night or after your backup and must be scheduled after AFJXNH ADD PATIENTS.

**9** Set up entries in file #537025, VAMC NETWORK HEALTH AUTHORIZED SITES, so users can request data from these sites. Fill in fields NAME; STATION NUMBER; INCLUDE IN ALL (parameter for Yes/No to include in ALL synonym), # DAYS TO KEEP TRACKING DATA ONLINE, NICKNAME and UPDATE FIELD (must be YES). These are the only fields that must be filled in.

See the example in the next section:





## Setting Up Entries in the VAMC NETWORK HEALTH AUTHORIZED SITES File

Shown below is a capture of a sample setting up of entries in the VAMC NETWORK HEALTH AUTHORIZED SITES file (file #537025) performed at the San Francisco IRM Field Office.



**NOTE:** The NAME field is a free text field. You must type in the NAME for the site exactly as it is entered in your DOMAIN file. (e.g., SANFRANCISCO.VA.GOV)

```
Select Systems Manager Menu Option:  NHEM  Network Health Exchange Manager
Menu

Select Network Health Exchange Manager Menu  Option:   ?

    1      Network Health Exchange Add/Edit Sites
    2      Network Health Exchange Inquiry
    3      Network Health Exchange Options ...

Enter ?? for more options, ??? for brief descriptions, ?OPTION for help
text.

Select Network Health Exchange Manager Menu  Option:    1  Network Health
Exchange Add/Edit Sites

Select VAMC NETWORK HEALTH AUTHORIZED SITES NAME:  MARTINEZ.VA.GOV
Are you adding 'MARTINEZ.VA.GOV' as
a new VAMC NETWORK HEALTH AUTHORIZED SITES (the 2ND)?  YES  (Yes)
VAMC NETWORK HEALTH AUTHORIZED SITES STATION NUMBER:  612
NAME: MARTINEZ.VA.GOV//
STATION NUMBER: 612//
NICKNAME: M
INCLUDE IN 'ALL'?:  NO  NO                                NOTE: Unless you specifically enter
                                                                NO at this query, the site will be
                                                                included in the ALL LOCAL AREA SITES
                                                                group.

SEND UPDATE TO NETWORK FILE?:  YES  YES
# DAYS TO KEEP TRACKING DATA?:  60
ACCEPT NETWORK FILE UPDATE?:  YES  YES
UPDATE NETWORK IDENTIFIER ??:  YES  YES

Select VAMC NETWORK HEALTH AUTHORIZED SITES NAME: SANFRANCISCO  CO.VA.GOV
Are you adding 'SANFRANCISCO.VA.GOV' a
a new VAMC NETWORK HEALTH AUTHORIZED SITES (the 5TH)?  YES  (Yes)
VAMC NETWORK HEALTH AUTHORIZED SITES STATION NUMBER:  662
NAME: SANFRANCISCO.VA.GOV//
STATION NUMBER: 662//
NICKNAME: SF
INCLUDE IN 'ALL'?:  NO  NO
```

## Installation Procedures

```
SEND UPDATE TO NETWORK FILE?:  NO  NO
# DAYS TO KEEP TRACKING DATA?:  60
ACCEPT NETWORK FILE UPDATE?:  NO  NO
UPDATE NETWORK IDENTIFIER ??:  NO  NO
```

Next set up the ALL LOCAL AREA SITES entry in the VAMC NETWORK HEALTH AUTHORIZED SITES file. The STATION NUMBER field should contain all the station numbers (separated by commas) that you wish to contact for NHE data when the ALL LOCAL AREA SITES entry is selected.

```
Select VAMC NETWORK HEALTH AUTHORIZED SITES NAME:  ALL LOCAL AREA SITES
Are you adding 'ALL LOCAL AREA SITES' as
a new VAMC NETWORK HEALTH AUTHORIZED SITES (the 6th)? YES  (Yes)
NAME: ALL LOCAL AREA SITES  Replace
STATION NUMBER:  612,662
NICKNAME:
INCLUDE IN 'ALL'??:  NO  NO
SEND UPDATE TO NETWORK FILE?:  NO  NO
# DAYS TO KEEP TRACKING DATA?:  60
ACCEPT NETWORK FILE UPDATE?:  NO  NO
UPDATE NETWORK IDENTIFIER ??:  NO  NO
```

THIS STEP IS COMPLETE...

- 10** Create a resource device that the service will use. This allows you to limit the number of jobs (resource slots) that will be running (Taskman jobs) and thus allows you to avoid overloading the system.

See the example in the next section:

## Setting Up a Resource Device

The purpose of a resource is to provide a mechanism of limiting the number of concurrent jobs that can run at any one time.

When creating a task, the task can request the resource as an input variable for the call. The resource itself, as defined in the DEVICE file, has a field called RESOURCE SLOTS that determines how many jobs can own it as a resource simultaneously. RESOURCE SLOTS should be set to 1 (one) (the default).

Shown below is a sample capture of setting up a resource device and affixing it to the server option.

```
D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT100

Select OPTION NAME:  EVE          Systems Manager Menu

    Application Utilities ...
    Capacity Management ...
    Core Applications ...
    Device Management ...
    Menu Management ...
    Operations Management ...
    SYSTEM COMMAND OPTIONS ...
    System Security ...
    Taskman Management ...
    User Management ...

Select Systems Manager Menu Option:  DEVICE Management

    Change Device's Terminal Type
    Device Edit
    Terminal Type Edit
    Hunt Group Manager ...
    Display Device Data
    List Terminal Types
    Clear Terminal
    Loopback Test of Device Port
    Send Test Pattern to Terminal
    Out of Service Set/Clear
    Current Line/Port Address
    DA Return Code Edit
    Edit Devices by Specific Types ...
    Edit Line/Port Addresses
    Line/Port Address report

Select Device Management Option:  ED
    1  Edit Devices by Specific Types
    2  Edit Line/Port Addresses
CHOOSE 1-2:  1  Edit Devices by Specific Types
```

## Installation Procedures

```
CHAN  Network Channel Device Edit
HFS   Host File Server Device Edit
MT    Magtape Device Edit
RES   Resource Device Edit
SDP   SDP Device Edit
SPL   Spool Device Edit

Select Edit Devices by Specific Types Option:  RES  Resource Device Edit

Select Resource Device:  AFJX RESOURCE  Are you adding 'AFJX RESOURCE' as
a new DEVICE?  Y  (Yes)
  DEVICE LOCATION OF TERMINAL:  IRM
  DEVICE $I:  AFJX RESOURCE
  DEVICE VOLUME SET(CPU):
  DEVICE TYPE:  RES  RESOURCES
NAME: AFJX RESOURCE//
$I: AFJX RESOURCE//
VOLUME SET(CPU):
RESOURCE SLOTS: 1//  1

Select Resource Device:

CHAN  Network Channel Device Edit
HFS   Host File Server Device Edit
MT    Magtape Device Edit
RES   Resource Device Edit
SDP   SDP Device Edit
SPL   Spool Device Edit

Select Edit Devices by Specific Types Option:

>D P^DI

VA FileMan 21.0

Select OPTION:  ENTER OR EDIT FILE ENTRIES

INPUT TO WHAT FILE: OPTION//  19  OPTION      (8267 entries)
EDIT WHICH FIELD: ALL//  SERVER DEVICE
THEN EDIT FIELD:

Select OPTION NAME:  AFJXNETP
SERVER DEVICE:  AFJX RESOURCE      IRM      AFJX RESOURCE
<-- NOTE: Enter AFJX RESOURCE at the
SERVER DEVICE prompt

Select OPTION NAME:
```

THIS STEP IS COMPLETE...



**NOTE:** There is a field, JOB, in the RESOURCE file that contains the job currently running on the system for the task and resource device. However, there may be a reason why that job doesn't get cleared from the field (killjob, etc.) If that is the case, and you are certain the job is not running, then kill the entry in the field and forward the mail message to the server again.

## 11

Run the routines that will add entries to the NETWORK PATIENT file at your site and the other sites in your VISN on the date agreed upon.

D ^AFJXPATL will send data to be included in the NETWORK PATIENT file to the sites you have added to the VAMC NETWORK HEALTH AUTHORIZED SITES file and for which you have filled in the fields for UPDATE NETWORK IDENTIFIER and the NETWORK PATIENT file. You will only get data from other sites if you fill in the field to accept their updates. You must answer YES for your own site to also get data added from its files to the NETWORK PATIENT file. Your own site data must be in this file so that all sites in your network area are synchronized.

**After running inits, run these routines:**

**If you have been previously running NHE:**

Run D ^ AFJXPPED in the background to clean up the NETWORK PATIENT file. AFJXPPED will go through the NETWORK PATIENT file and remove any patients in your database with an SSN containing five leading 0s (zeroes), leading Es or Zs or a P, or not pattern matching nine numeric characters. NHE screens for five leading zeroes in accordance with VHA Directive 96-0006 and DG\*5.3\*72.

If you have never run NHE before at your site, you do not need to run this option to clean up the NETWORK PATIENT file.

**To seed the NETWORK PATIENT file:**

Coordinate with other sites to select dates and times for seeding the NETWORK PATIENT file. Contact the Package Release Manager. Review Implementation Guidelines.



**NOTE:** Records for patients in your database with an SSN containing five leading 0s (zeroes), two leading EEs or ZZs or a P will not be sent across to other sites.

**12** Schedule background options to run nightly:

AFJXNH ADD PATIENTS      Must be scheduled when the system is not busy, e.g., around 3:30 or 4:00 a.m.

AFJXNH PURGE NIGHTLY      Nightly scheduled option to purge messages from NETWORK,HEALTH EXCHANGE User's mailbox. Must be scheduled after AFJXNH ADD PATIENTS.

**13** Assign clinical users menu option AFJXNHEX REQUEST. Assign managers menu option AFJXNHEX MANAGER. Menus may be assigned using the Systems Manager Menu and the User Edit submenu (for assigning primary or secondary menus).

Network Health Exchange Options      [AFJXNHEX REQUEST]  
This menu comprises options pertaining to the retrieval of patient information from another VAMC site. It permits the retrieval of patient information and allows that information to be viewed onscreen or printed. It is intended for health care professionals who have direct patient care and have need for clinical information.

Network Health Exchange Manager      [AFJXNHEX MANAGER]  
This menu comprises options to manage the station's NHE operation and also allow access to retrieve and print patient data from other VA Medical Centers. This menu is intended to be used by individuals responsible for managing the operation of the local Network Health Exchange package. The Network Health Exchange Options (AFJXNHEX REQUEST) are also under the Manager menu.

**14** Delete DGY3\* and AFJXI\* install routines when you are confident your installation has been completed correctly.

YOU HAVE COMPLETED THE NHE INSTALLATION...

# Post-Installation Information

This is a summary of information that is presented in the Installation Procedures section.

## Namespace

The NHE V. 5.1 package uses the namespace AFJX.

## NHE Files:

Files for the package are numbered from 537000 to 537025. After you run the install routines, you should have the following files:

537000 NETWORK HEALTH EXCHANGE REQUEST  
537010 NETWORK PATIENT  
537015 NETWORK HEALTH TYPES  
537025 NETWORK HEALTH SITES

## Nightly options:

AFJXNH ADD PATIENTS	Must be scheduled when the system is not busy, e.g. around 3:30 or 4:00 a.m.
AFJXNH PURGE NIGHTLY	Nightly scheduled option to purge messages from NETWORK,HEALTH EXCHANGE User's mailbox. Must be scheduled after ADD PATIENTS.

## Servers:

AFJXNETP	Network Health Patient Server
AFJXNHDONE	Network Health Exchange Alert Send Server
AFJXSERVER	Network Patient Data Request Server

## Options:

### User's Menu

AFJXNHEX REQUEST    general options (six) for clinical users

#### with the following options:

- Brief (12 months) Medical Record Information
- Total Medical Record Information
- Brief (12 months) Pharmacy Information
- Total Pharmacy Information
- Print (Completed Requests Only)
- Print By Type of Information (Completed Requests)

### Manager's Menu

AFJXNHEX MANAGER    option for coordinator to add sites and make inquiries and to access the general options menu directly

#### with the following options:

- AFJXNHEX ADD/EDIT SITES
- AFJXNHEX INQUIRE
- AFJXNHEX REQUEST

## After running inits, run these routines:

### If you have been previously running NHE:

D ^AFJXPPED    will run in background to clean up Network files

### To seed the NETWORK PATIENT file:

Coordinate with other sites to select dates and times for seeding the NETWORK PATIENT file. Contact the Package Release Manager. Review Implementation Guidelines.

D ^AFJXPATL    will send data to be included in NETWORK PATIENT file.

Average installations take about 2 minutes when run during the day while users are on the system.

Copy the routines to all systems and volume sets as appropriate for your configuration. Delete the install routines when you are confident your installation has completed successfully.

## Assign Menus:

Next assign menus to users. Menus may be assigned using the Systems Manager Menu and the User Edit submenu (for assigning primary or secondary menus ).



## Two Menus:

### Network Health Exchange Options [AFJXNHEX REQUEST]

This menu comprises options pertaining to the retrieval of patient information from another VAMC site. It permits the retrieval of patient information and allows that information to be viewed onscreen or printed. It is intended for health care professionals who have direct patient care and have need for clinical information.

### Network Health Exchange Manager [AFJXNHEX MANAGER]

This menu comprises options to manage the station's NHE operation and also allow access to retrieve and print patient data from other VA Medical Centers. This menu is intended to be used by individuals responsible for managing the operation of the local Network Health Exchange package. The Network Health Exchange Options (AFJXNHEX REQUEST) are also under the Manager menu.

## Domains/Network Estimates

The NHE package will bring in the VAMC NETWORK HEALTH AUTHORIZED SITES file (#537025). Each site will need to populate this file with the domain name of sites with which they plan to share data.

Each site may set local site parameters to manage the length of time NETWORK,HEALTH EXCHANGE mail messages are retained.



# Sample Installation

The following is a capture of an installation of NHE V. 5.1 done at the IRM Field Office San Francisco.

```
>
>

D ^XUP

Setting up programmer environment
Access Code:

Terminal Type set to: C-VT320

You have 2 new messages.
Select OPTION NAME:
>

>D Q^DI

VA FileMan 21.0

Select OPTION:
>

>W DUZ,! ,DUZ(0)
10
@
>

>D ^AFJXINST

This version (#5.1) of 'AFJXINIT' was created on 23-JAN-1996
      (at SAN FRANCISCO ISC, by VA FileMan V.21.0)

I AM GOING TO SET UP THE FOLLOWING FILES:

      537000      VAMC NETWORK HEALTH EXCHANGE
Note:  You already have the 'VAMC NETWORK HEALTH EXCHANGE' File.

      537010      VAMC NETWORK PATIENT
Note:  You already have the 'VAMC NETWORK PATIENT' File.

      537015      VAMC NETWORK HEALTH TYPES (including data)
Note:  You already have the 'VAMC NETWORK HEALTH TYPES' File.
      I will MERGE your data with mine.

      537025      VAMC NETWORK HEALTH AUTHORIZED SITES
Note:  You already have the 'VAMC NETWORK HEALTH AUTHORIZED SITES' File.

SHALL I WRITE OVER FILE SECURITY CODES? No// NO (No)
NOTE: This package also contains INPUT TEMPLATES
      SHALL I WRITE OVER EXISTING INPUT TEMPLATES OF THE SAME NAME? Yes// YES
      (Yes)
NOTE: This package also contains OPTIONS
      SHALL I WRITE OVER EXISTING OPTIONS OF THE SAME NAME? Yes// YES (Yes)

ARE YOU SURE EVERYTHING'S OK? No// YES (Yes)
```

## Sample Installation

```
...EXCUSE ME, I'M WORKING AS FAST AS I CAN.....
'AFJXNETP' Option Filed
'AFJXNH ADD PATIENTS' Option Filed
'AFJXNH PURGE NIGHTLY' Option Filed
'AFJXNHDONE' Option Filed
'AFJXNHEX EDIT SITES' Option Filed
'AFJXNHEX INQUIRE' Option Filed
'AFJXNHEX MANAGER' Option Filed
'AFJXNHEX REQUEST' Option Filed
'AFJXSERVER' Option Filed.
OK, I'M DONE.
NO SECURITY-CODE PROTECTION HAS BEEN MADE

Now installing DG*5.3*81
```

This version (#1) of 'DGY3INIT' was created on 03-JAN-1996  
(at SAN FRANCISCO ISC, by VA FileMan V.21.0)

I AM GOING TO SET UP THE FOLLOWING FILES:

2 PATIENT (Partial Definition)  
Note: You already have the 'PATIENT' File.

SHALL I WRITE OVER FILE SECURITY CODES? No// NO (No)

ARE YOU SURE EVERYTHING'S OK? No// YES (Yes)

```
...EXCUSE ME, LET ME PUT YOU ON 'HOLD' FOR A SECOND.....
OK, I'M DONE.
```

NO SECURITY-CODE PROTECTION HAS BEEN MADE

>

>

>

>

Department of Veterans Affairs  
Decentralized Hospital Computer Program

# **NETWORK HEALTH EXCHANGE INSTALLATION GUIDE**

Version 5.1  
February 1996

Information Resource Management Field Office  
San Francisco



# Table of Contents

<b>Introduction .....</b>	<b>1</b>
<b>Preliminary Considerations .....</b>	<b>3</b>
Platform Requirements.....	3
You will need to know how to: .....	3
Advance Preparation .....	4
<b>Installation Overview .....</b>	<b>5</b>
<b>Installation Procedures .....</b>	<b>7</b>
Installing NHE, the PATIENT File Identifier, and the PATIENT File Field .....	9
Setting Up the NETWORK,HEALTH EXCHANGE User .....	12
Setting Up Entries in the VAMC NETWORK HEALTH AUTHORIZED SITES File .....	15
Setting Up a Resource Device .....	19
<b>Post-Installation Information .....</b>	<b>23</b>
<b>Sample Installation .....</b>	<b>27</b>

## Table of Contents